

### **ABSTRACT OF THE DISCLOSURE**

A fluid filled cartridge having a fixed needle and a piston assembly for expression of its contents is mounted inside an applicator. In order to extend the needle from the body prior to cartridge contents expression and without premature leakage of fluid therefrom, an actuator is mounted in the body to drive the cartridge forwards. This is accomplished by co-operating driving and driven parts of the actuator and the cartridge (or any carrier it may have) which are decoupled by release formations in the applicator body after the cartridge has been moved sufficiently to extend the needle. The applicator also includes provision for automatic needle retraction after cartridge contents expression. A separate inventive feature is the deformability of the piston so that force transmission to the trigger means to initiate needle retraction only occurs upon full content expression when the piston has "bottomed out" within the cartridge.